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Liége 1930 International Exhibition of Industry...

International Exhibition of Industry, Pure Science...

Liége

[1930]

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- 7  110 2   Liŕege 1930 International Exhibition of Industry, Pure Science,
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- 8  245 10  International Exhibition of Industry, Pure Science, Applied
Science, Ancient Walloon Art ▾h [microform] : ▾b Liŕege 1930 : official
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Centenary of the Independence of Belgium

International Exhibition

of

Industry, Pure Science
Applied Science
Ancient Walloon Art

Liége 1930

308
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Box 24

Official Programme

Offices : 4, Place St-Lambert, Liége-Belgium

Under the Patronage
of Their Majesties the King and Queen
of the Belgians

And the Presidency of Honour
of Their Highnesses the Duke and the Duchess
of Brabant

Under the Official Patronage
of the Government

CENTENARY OF THE INDEPENDENCE OF BELGIUM

LIEGE 1930

INTERNATIONAL EXHIBITION OF INDUSTRY, PURE SCIENCE AND APPLIED SCIENCE

Offices : 4, PLACE SAINT-LAMBERT, LIÉGE (Belgium)

TELEPHONE : 8166

LIEGE, July 1928

General Object

The Centenary of the Independence of Belgium will be celebrated, in 1930. *An important part of these celebrations will take the form of an International Exhibition of Pure and applied Science and Industry, to be held in the ancient University town of Liege.*

The Liege Exhibition of 1905, *met with memorable success ; on a unique site,* 30 *nations cooperated in exhibiting the products of their industries. Since that time, stounding events have overthrow the activity and economic*

condition of many countries. This applies with particular force to Belgium many of whose ancient Industries have been shattered to their very roots. Nevertheless, generally speaking, thanks to his commonsense and energy, the Belgian, although living in a country with limited resources has, succeeded in adapting his activities to the existing conditions and needs, by creating new industries thus assuring work and comfort to a superabundant population.

The Exhibition of 1930 *will enable us, better even than to day, to indicate the "degree" as it were of the new found economy of the country, to take stock of its new activities and to compare the results with those obtained in other countries.*

A specially large space will be reserved to desplay the great problems in which scientists, engineers, manufacturers and financiers are actually engaged, such as the production of solid, liquid, and gaseous fuels, chemical products, synthesis including road problems... From this point of view, and taking into account the certain and rapid progress which will be made within the next 2 *years, we may feel sure that the* 1930 *Exhibition will prove an impressive collection of the acquisitions of modern Technique.*

Following logically on this, the promoters of the 1930 *Exhibition desire also to hold a Scientific Exhibition relating to Engineering and Medicine.*

Recent years have made increasingly evident the important part which science plays in modern industry. Every day, technical processes are modernised and transformed by new applications of science. Every day, science supplies the basis of new industrial applications and new engineering methods. For instance it is no longer, so essential as it was 60 *years ago that a country should be rich in mineral resources to develop active industries; the mastery and proper utilisation of energy tend to take a place as important as the conquest of matter, in the useful activity of man.*

The Branly tube contains, in the potential state, the germ of an industry which, although already very flourishing, is yet in its infancy.

Nitrogen, drawn from the inexhaustible reservoir of the air, is the object of a valuable industry.

The latest invention of Claude and Boucherot will lead, without doubt, to consequences of the greatest industrial importance.

White sand from the Campine (used in glass-making) is a materiel as valuable, from the point of view of national economy, as more precious minerals.

If it is indisputable that our earth becomes poorer each day in mineral resources, it is also indisputable that, with more modest materials, on the essential condition of applying unceasingly the most recent scientific methods, we

can, not only maintain, but accentuate and refine, the necessary industrial activity of our over-populated country.

The Scientific Exhibition will demonstrate these points, will survey, for everybody's benefit, the rich conceptions of these latter fruitful years ; it will teach new methods to engineers ; and will supply representatives of industry and finance with ideas which may lead to undreamed of applications.

By her old and celebrated University, by her renowned Engineering and Medical Schools, by her Institutions and powerful Technical and Scientific Associations, by her title of Industrial Capital of the country, Liege felt bound to undertake this exhibition and owes it to herself to make it a success.

Aspect of the Exhibition

A fair part of the great success of the 1905 Exhibition was undoubtedly due to its picturesque and cheerful site. The surroundings of the 1930 Exhibition will be still more picturesque and greatly amplified. To the North of the City, accessible through the new bridge of Coronmeuse and the new boulevards on the right bank, equipped with its new thoroughfares and all necessary services, easily connected to the railway, the " Plaine des Manœuvres " (and adjoining grounds) forms a level ground without obstacles, suitable for the Heavy Industries

(Mines, Metallurgy, Mechanics, Electricity, Chemical industries, etc.), Transport, Civil Engineering, Agricultural Exhibitions and Athletic competitions.

To the South of the City, on the most rustic ground of the previous exhibitions (Parc de la Boverie, Jardin d'Acclimatation, Garde-Dieu) where the site is more varied and the space limited, the smaller and lighter Pavilions of Science, Music, Walloon Art, etc. will be arranged.

Independently of all the other means of access which will be improved, the river is the most picturesque connection between the two sections of the Exhibition wich will cover an area of about 165 acres.

It may be pointed out that this arrangement will have the valuable consequence of utilising, in the most judicious manner, all the resources of the city to welcome, amuse and interest visitors.

Special Exhibits

(not included in the official programme)

Sciences and Industry would not be sufficient to interest everybody. Therefore the Executive Committee have decided to surround these rather austere objectives with supplementary exhibitions. As a counterpart of the Flemish Art Exhibition in Antwerp Liege will have a

retrospective Exhibition of Ancient Walloon Art; and an International Exhibition of Music will be organised in honour of its renowned musical school.

An International Exhibition of Agricultural machinery, a Pavilion of Viticulture and numerous agricultural exhibits will attract the attention of those interested in farming.

In the "Palais de la Femme" will be shown the means and products of the activities and needs of women.

A vast programme of Congresses and Conferences is under consideration.

The lovers of Touring and Sport will find satisfaction in special and varied exhibits.

Lastly, various attractions will complete the programme which we have just outlined.

THE EXECUTIVE COMMITTEE.

Cooperative Society 1930 Exhibition

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Mr. Georges de PIERPONT, Director of the Credit General Liégeois.

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Mr. Louis ELOY, Engineer (A. I. Lg.).

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Mr. Ferdinand EYMAEL, Industrial.

Mr. Marcel de FRAIPONT, General-Manager of Cristalleries du Val-St-Lambert.

Mr. Auguste FRANCOTTE, Industrial, Vice-President of the Board of the Liege Proof House, and School of Armourers.

Mr. Gustave GERARD, Engineer (A. I. Lg.), President of the Liege Federations of Industrial and Commercial Associations.

Mr. Olympe GILBART, Professor of the Liege University.

Mr. Albert GOFFIN, Administrator-Delegate of the Banque Liégeoise.

Mr. Léon GREINER, Engineer (A. I. Lg.), General-Manager of S. A. John Cockerill.

Mr. Marcel HABETS, Engineer (A. I. Lg.), President of the Coal Association of the Province of Liege.

Mr. Gustave JOASSART, General-Manager of Fabrique Nationale d'Armes de Guerre, Herstal.

Mr. Alfred LABOULLE, late Minister of Public Works.

Mr. Georges LALOUX, Regent of the National Bank of Belgium.

Mr. Emile LAUMONT, Administrator-Delegate of the Banque Générale de Liége et de Huy, Liége.

Mr. Georges LIMAGE, Senator.

Mr. Georges MEYERS, Senator.

Mr. Georges MORESSÉE, Engineer (A. I. Lg.).

Mr. Marcel NAGELMACKERS, Banker.

Mr. Arthur NYSSEN-DUMONCEAU, Industrial.

Mr. Albert OURY, Banker.

Mr. Lucien PELLEGRIN, Engineer (A. I. Lg.), Director of roadway services of the City of Liege.

Mr. Edouard PELTZER de CLERMONT, Engineer (A. I. Lg.).

Mr. Georges PHILIPPE, Engineer (A. I. Lg.), General-Inspector of the Nord-Belge Railway.

Mr. Léon RIGO, Administrator-Delegate of the Banque Dubois.

Mr. Gaston Saint-Paul de SINÇAY, Administrator and General Manager of S. A. Vieille-Montagne, Angleur.

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Mr. François TIMMERMANS, Engineer, President of the Board of S. A. Ateliers de la Meuse.

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Mr. Léon TROCLET, Communal Councillor, Questor of the Chamber of Representatives.

Mr. Nicolas WISER, Honorary President of the Liege Association of Hotel keepers.

Commissioners :

Mr. Albert D'HEUR, Engineer (A. I. Lg.), Director of S. A. Acieries d'Angleur.

Mr. Lucien WAUTHIER, Engineer, Director of S. A. Tubes de la Meuse, Flémalle.

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Mr. Jacques Van HOEGAERDEN, Engineer (A. I. Lg.), Administrator and General Manager of S. A Ougrée-Marihaye.

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Mr. Georges DALLEMAGNE, Engineer (A. I. Lg.), President of the Federation of Chemical Industries of Belgium.

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General-Secretary :

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Mr. Albert GOFFIN, Administrator-Delegate of the Banque Liégeoise.

Mr. Marcel HABETS, Engineer (A. I. Lg.), President of the Coal Association of the Province of Liege.

Mr. Georges LALOUX, Regent of the National Bank of Belgium.

Mr. Arthur NYSSEN-DUMONCEAU, Industrial.

General-Commissioner of the Government for the Liege Exhibition 1930

Mr. Alfred LABOULLE, late Minister of Public Works.

LIEGE 1930

INTERNATIONAL EXHIBITION
INDUSTRY
PURE SCIENCE, APPLIED SCIENCE

Official Programme

SUMMARY :

A. — Sciences:

Group 1 : Mathematics.
Group 2 : Physics.
Group 3 : Chemistry.
Group 4 : Mineralogy.
Group 5 : Industrial Sciences proper.
Group 6 : Medical Sciences.
Group 7 : Industrial Tuition.
Group 8 : Scientific Tuition.

B. — Industries:

Group 9 : Mining and Quarrying.
Group 10 : Metallurgy.
Group 11 : Mechanics.
Group 12 : Arms.
Group 13 : Electricity.
Group 14 : Chemical, Pottery, Glass and Sugar Industries.
Group 15 : Textile industries

C. — Railways and Transport:

GROUP 16 : Cycles and Motorcycles. Railways.

D. — Civil Engineering:

GROUP 17 : Roads and concretes.

E. — Common to Sciences and Industries:

GROUP 18 : Arrangement of workshops. Labor organisation. Press and Documentation.

F. — Congresses and Conferences:

Ancient Walloon Art

N.-B. — Matters specifically pertaining to the Sea and the Colonies are not dealt with at the International Exhibition Liege 1930.

International Exhibition Liege 1930

A. — Sciences.

GROUP 1.

Applied Mathematics.

CLASS 1. — Processes, investigating, measuring and demonstrating instruments and apparatus used in Arithmetic, Practical Geometry, Topography and Geodesy.

CLASS 2. — Processes, instruments, investigating, measuring demonstrating and adapting apparatus used in Cosmography, Astronomy and allied Sciences.

GROUP 2.

Physics.

CLASS 3. — *a*) Methods, processes, investigating, measuring and demonstrating instruments and apparatus used in the study of the Ponderable.

b) Methods and scientific apparatus for the application of the physical laws and properties of the Ponderable to the comfort, well-being, progress and activity of mankind.

FOR INSTANCE :

Apparatus : Scales, calorimeter, sonometer, molecular pump Claude engine (liquid air), ultra-microscope

Applications of physical laws and properties : Ballistic, uses of high vacuum, production and utilization of liquefied gases, gliders, natural vibrations : sound, ultra-sound and their utilization.

Class 4. — *a*) Methods, processes, instruments, investigating, measuring demonstrating apparatus used in Electricity and Magnetism.

b) Methods and scientific apparatus for the application of physical laws and properties of Electricity and Magnetism to the comfort, well-being, progress and activity of mankind.

For instance :

Apparatus : Electroscopes, condensers, batteries, Crookes' tube, mercury arc, vibrating arc, electro-magnet.

Applications : Galvanoplastics, electrolysis lightning conductors, telegraph, microphone, application of radio-activity phenomena.

Class 5. — *a*) Methods, process, instruments, investigating, measuring, demonstrating apparatus utilized in the Physics of the Imponderable (waves and radiations of all types).

b) Methods, and scientific apparatus for the application of laws and properties depending on the physics of the Imponderable to the comfort, well-being, progress and activity of mankind.

For instance

Apparatus : for the measurement of electro-magnetic waves, their capture, reflection, diffusion, concentration and direction.

Applications : of Hertzian waves, wireless telephone,
of infra-red rays, heating by radiation,
of luminous rays, lighting, microscope, mirror,
of chemical rays, photography,
of ultra-violet rays, phosphorescence, radio-chemistry,
of X rays-study of crystals composition,
of X & Y rays, Coolidge tube.
Spectroscopy, photo-electricity, etc.

GROUP 3.

Chemical Sciences.

Class 6. — *a*) Methods, processes, investigating, measuring and demonstrating apparatus and instruments utilized in the study and research of general chemical properties of bodies and of the laws of Physico-Chemistry and General Chemistry, mineral and organic.

b) Methods and scientific apparatus for the application of these chemical laws and properties to obtain substances used for the comfort, well-being, progress and activity of man.

c) Products and materials depending on Chemical Sciences.

Class 7. — Methods, instruments, apparatus and accessories utilized in analytical Chemistry.

GROUP 4.

Mineral Sciences.

Class 8. — *a*) Processes, instruments, investigating, measuring, and demonstrating apparatus utilized in the study of properties of minerals and the laws of Crystallography, Mineralogy and Petrography.

b) Methods and scientific apparatus applying these properties and laws to the comfort, well-being, progress and activity of mankind.

Class 9. — Methods, processes, instruments and apparatus utilized in the study of Paleontology and allied Sciences. Demonstrations by means of maps, plans, samples, of the

help given by Paleontology to the History of the World and to the research of materials useful to mankind.

Class 10. — *a*) Methods, processes, instruments and apparatus for the investigation and demonstration of Geology and Hydrology.

b) Methods, processes, instruments and apparatus utilized in research, prospecting and examination of deposits of natural materials useful to mankind.

'Prospecting and applied Geology).

For instance :

Processes and materials for prospecting based on the laws of electricity, magnetism, gravity, etc.

Class 11. — Collections of materials pertaining to mineral Sciences.

GROUP 5.

Industrial Sciences proper.

Class 12. — Processes, instruments, apparatus and tools employed in Testing Stations and Industrial and Research Laboratories for discovering, determining and measuring, for utilitarian purposes, the qualities and defects of agents and materials produced by :

a) Extractive Industries and Civil Engineering.
b) Metallurgy and Mechanics.
c) Electrical Industry.
d) Chemical, Glass and Sugar Industries.
e) Textile Industry.
f) Art and miscellaneous Industries.

For instance :

Apparatus used in testing houses, in metallography, in spectrography (metallurgy).
Testing apparatus for natural and artificial materials (Civil engineering).
Stroboscope (mechanics).
Apparatus pertaining to photo-elasticity (resistance of materials).
Results.

GROUP 6.

Medical Sciences.

Class 13. — *a*) Methods, processes, instruments and apparatus employed in seeking the causes, discovering, characterising, following up, and measuring the affections (of medical or surgical order) of mankind, and their consequences.

b) Methods, instruments, processes and apparatus employed to prevent, palliate, abate and cure these affections. Results.

Class 14. — Fittings, processes, instruments, apparatus and tools for premises for medical and surgical researches and practice.

Class 15. — Fittings, apparatus and processes more specially intended for medical and surgical quarters annexed to industrial works.

GROUP 7.

Industrial Tuition.

Class 16. — Programmes, methods, tools and works of professional schools.

CLASS 17. — Programmes, methods, tools and works of Industrial Art schools.

CLASS 18. — Programmes, methods, tools and works of Industrial schools.

CLASS 19. — Programmes, methods, tools and works of Higher Technical schools.

GROUP 8.

Scientific Tuition.

CLASS 20. — Programmes, methods, plant and works of Scientific High Schools, Scientific technical and medical Faculties.

CLASS 21. — Programmes, methods, plant, works of important Associations, laboratories and Scientific Institutions.

GENERAL NOTICE. — The Executive Committee strongly insists on having the Scientific Exhibition fundamentally instructive and animated.

For this purpose and as much as possible, the apparatus will work frequently and the results obtained by the use thereof will be exposed near them.

The Executive Committee will give every assistance to facilitate the working of the material exhibited.

B. — Industries Group

GROUP 9.

Mining and Quarrying.

CLASS 22. — Processes, plant and apparatus used in Mining.
Non-chemical apparatus and processes of treatment of raw material from mines.
Mining Products.

CLASS 23. — Application to Natural Combustibles.

CLASS 24. — Application to metallic mines and, in general, to all exploitations of natural products.

CLASS 25. — Application to natural waters.

CLASS 26. — Plans and models of buildings connected with extractive industries both for their principal object and auxiliary needs: baths, wash-houses, dormitories, stables... with fittings and furniture.

CLASS 27. — Plans, maps, statistics, publications relating to the above objects.

GROUP 10.

Metallurgy.

CLASS 28. — Processes, plant and apparatus utilised in the production of cast, puddled and semi-finished products in cast-iron, iron and steel.
Ditto for ferro-alloys.
Products of these industries.

CLASS 29. — Iron and steel foundries.
Pipe foundries and rolling mills.
Processes, apparatus, plant and products.

CLASS 30. — Boiler-works, structural engineering and forges.
Processes, apparatus, plant, products and models.

CLASS 31. — Processes, apparatus, materials, plant and products of derivative and auxiliary industries to Cast-iron, Iron and Steel.

CLASS 32. — Non-ferrous Metallurgy.
Zinc, lead works, etc.
Processes, materials, apparatus and products.

CLASS 33. — All industries utilising these metals and their alloys as principal raw material.
Processes, apparatus, plant and products.

CLASS 34. — Special and miscellaneous refractory products utilised in metallurgy.

CLASS 35. — Means of production and materials, by-products of metallurgical Industry such as slag cement, slag, bricks, clinkers, etc.

CLASS 36. — Plans, statistics, publications relating to Metallurgy.

GROUP 11.

Mechanics.

CLASS 37. — Processes, apparatus, tools and machinery used in mechanics, such as :

All testing, measuring, recording, controlling, weighing apparatus.
All apparatus and machinery for the transmission, regulation and distribution of power, for the manipulation and transport of loads, to avoid and contend against accidents, etc.
Fans, compressors, presses, accumulators, etc.

CLASS 38. — All machines for the production, reception and distribution of power (other than electrical machinery).
Wind, air, water, steam, gas, petrol, oil, heavy oil and other machinery and spares.
All connected apparatus and plants, with accessories : fire-box, boilers, chimneys, condensers, smoke-consuming apparatus, water purifying apparatus and processes, apparatus for industrial heating and ventilation, etc.
Canalisation, cocks and valves, pipings, etc.

CLASS 39. — Machinery for working metal, wood, and other materials.

CLASS 40. — Plans, models, statistics, and publications relating to mechanics.

GROUP 12.

Arms.

CLASS 41. — Processes, tools and plant for arms factories.
Ditto for cartridges and munitions.

CLASS 42. — Sporting guns, army rifles, etc. ; cutting arms, projectiles, armament and gunsmith's accessories.

GROUP 13.

Electricity.

Class 43. — Generators, transformers and electric motor

Class 44. — Power stations (thermic, gas, hydro-electric)

Class 45. — Transport and distribution of electrical Energy.

Class 46. — Application of electricity to metallurgy.

Class 47. — Electricity applied to mechanics.

Class 48. — Electricity applied to Chemical industry.

Class 49. — Electricity applied to Industrial lighting.

Class 50. — Telegraphic and telephonic industries.

Class 51. — Measuring, controlling, regulating and safety apparatus and materials used in Electricity.

Class 52. — Plans, statistics, projects and publications relating to Electricity.

GROUP 14.

Chemical, Ceramic, Glass and Sugar Industries.

a) *Chemical Industry.*

Class 53. — Combustibles.

a) Raw materials, processes, apparatus, materials and products of extraction, distillation, treatment or transformation of natural mineral combustibles and their derivatives.

(Carbonisation and distillation of coal, turf, lignite, petroleum, bituminous schist and their by-products).

(Tar, pitch, mineral oil and fat mineral bodies industries.)

(Industry of combustible, industrial and lighting gases and fuels of mineral origin).

(Raw materials, processes, apparatus, materials and products of the manufacture of vegetable fuels and their derivatives).

(Raw materials, processes, apparatus, materials and products of the industry of fuels of synthetic origin).

Class 54. — Technical chemistry.

All products of the chemical mineral or organic industry.

Raw materials, processes, apparatus, plant and products of these industries.

Class 55. — Industries of atmospheric gases and derivative industries.

Industries of air and its components : nitrogen and its synthetic derivatives, oxygen, carbonic acid, rare and various gases.

Raw materials, processes, plant, apparatus and products of these industries.

Class 56. — Industries relating to gun-powder, explosives, matches, pyrotechnics and plastic materials.

Raw materials, processes, plant, apparatus and products of these industries.

Class 57. — Cellulose and paper industries.

Raw materials, processes, plant, apparatus and products.

CLASS 58. — Refractory and other products mainly utilised in the chemical industry.

b) *Pottery.*

CLASS 59. — Clay industries.
Bricks, tiles, pipes, pottery, glazed tiles, pavings, etc.
Raw materials, processes, plant, apparatus and products.

CLASS 60. — Ceramics and artificial stone-ware industries.
Raw materials, processes, plant, apparatus and products.

CLASS 61. — Refractory products.
Raw materials, processes, plant, apparatus and products (other than those mentioned in class 7 Metallurgy and class 6 Chemical Industry).

CLASS 62. — Porcelain, Crockery and sanitary Earthenware
Raw materials, processes, plant, apparatus and products.

CLASS 63. — Art pottery and ceramics, Ornamental earthenware and porcelain.

c) *Glass Industry* (Glasses-mirrors-crystal).

CLASS 64. — Glass industry (sheet, blown, drawn glass). Classical and mechanical processes.
Raw materials, processes, plant, apparatus and products.

CLASS 65. — Cast and other glass. Quartz and special glass.
Raw materials, processes, plant, apparatus and products.

CLASS 66. — Bottle, flask and hollow-glassware industries.
Raw materials, processes, plant, apparatus and products.

CLASS 67. — Plate-glass and mirror industries.
Raw materials, processes, plant, apparatus and products.

CLASS 68. — Crystal industry.
Raw materials, processes, plant, apparatus and products.

CLASS 69. — Art crystal and glass.

CLASS 70. — Scientific hollow-glassware, glass and crystal.

d) *Sugar Industry.*

CLASS 71. — Processes, apparatus, plant and raw products of the sugar industry (limited to beet-sugar).

CLASS 72. — Plans, statistics and publications relating to chemical, ceramic, glass and sugar industries.

GROUP 15.

Textile Industry.

CLASS 73. — Raw materials, materials, processes and products of the vegetable sack, cord and rope industries.

CLASS 74. — Materials, plant, processes and products of natural textile industries (spinning, weaving, bleaching, etc.).

N. B. — With the exception of natural cotton and silk reserved for Antwerp

CLASS 75. — Materials, processes, plant and products of artificial textile industries (chiefly artificial silk).

Class 76. — Materials, processes, plant and products of vegetable and animal origin for currying and industrial felts.
Mountain-flax and miscellaneous fabrics.

C. — Transport Section

GROUP 16.

Class 77. — Cycle and motorcycle industries.
Processes, apparatus and products.

Class 78. — Railroads for railways, tramways, dock-yards works.
Construction, equipment, apparatus and plant.

Class 79. — All railroad traction engines. Locomotives of all types. Electric traction, etc.

Class 80. — Rolling stock (railways, tramways, special waggons for dock-yards, works, etc.).

Class 81. — Aerial railways.

Class 82. — Plans, models, statistics and publications relating to the objects of this group.

N.-B.— Material for colonial transport is reserved to the Antwerp Exhibition.

D. — Civil Engineering

GROUP 17.

Roadways.

CLASS 83. — Plans, materials, equipment and processes for the construction, repairing and upkeep of roads, streets and public roadways in general.

CLASS 84. — All matters relating to traffic, safety, lighting, sewerage, and all other services connected with roadways.

Reinforced Concrete.

CLASS 85. — Raw materials, processes and materials for the manufacture of concrete or reinforced concrete.

Works executed in concrete (plans, models and full-sized works).

E. — Common to Sciences and Industries

GROUP 18.

Arrangement of workshops. Labor organisation Press and Documentation.

CLASS 86. — Architecture, arrangement, general plant, furniture of auditoria, laboratories, drawing offices, offices in schools and workshops.

CLASS 87. — *a*) Processes and means used or conceived, of an architectural nature or otherwise, to adapt the exterior aspect of works and their dependences ot their surroundings, to reduce or annul the danger and the incommodities of their neighbourhood)from the point of view of esthetic, sanitation or other) and notably : all processes or means for the purpose of overcoming the emanations, injurious gases, smoke, mud, dust, noise, fire, burst, pollution of water.

b) Studying and testing material, processes and means used or conceived to improve labor organisation, security and salubrity of the workers and to overcome the incommodities and the danger of labor.

c) Studying and testing material, processes and means used or conceived for measuring the ability of the workers, and for professional training of the staff and the workers.

CLASS 88. — *a*) Library, Press and Scientific Documentation.

b) Library, Press, Technical and Industrial documentation.

F. — Congresses and Conferences

GROUP 19.

CLASS 89. — **Congresses, Conferences, Industrial and scientific demonstration relating to all the items of the programme.**

Ancient Walloon Art

Centenary of the Independence of Belgium

LIÉGE 1930

Manifestations and Special Exhibitions

Organised of the occasion of

THE INTERNATIONAL EXHIBITION

of the

INDUSTRY

PURE SCIENCES AND APPLIED SCIENCES

INTENTIONAL SECOND EXPOSURE

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Liége, July, 1928

Fine Arts

A. Exhibition of the Ancient Walloon Art
(up to 1830)

Architecture — Sculpture — Painting
Furniture and Decoration — Clothing
Jewels
Engraving and Binding
Feminine Arts — Industrial Arts
Historical Reconstitutions

In the annex to the "Palais des Armes,, :

The life, the resources and the productions of the armourer of Liége.

In the annex to the "Palais du Verre,, :

The life, the resources and the productions of the glass-maker of Liége.

Fine Arts

B. International Exhibition of Music

Processes, materials and plant
for the manufacture of musical instruments
All modern musical instruments
Contribution of physics, mechanics, electricity
to the resources of music
Exotic Music — Musical Toys
Eccentric Instruments
Musical Audiences
History (retrospective exhibition) of musical
Appliances and Works
The Life of the Great Musicians
(historical reconstitutions)
The Teaching of Music
Progress of Music
Publications, Library, Musical Editions
Demonstrations, Auditions, Conferences
Festivals
Great Concerts
Co gresses

Feminine Life

The Women's Palace

Dress — Shoes
Hair-dressing — Finery
Perfumery
Feminine Arts
Outlines of feminine Life and Activity
Feminine Sports
Press, Library and Publications relative
to feminine Life

RIVERS AND RIVER PORTS OF THE INTERIOR

Agencement, materials and apparatus
for the rivers, streams and river ports
of the interior

Agriculture

A. International Exhibition of Agricultural Machinery

1° Implements, engines, materials and machines intended for :
- *a*) preparing the soil for cultivation;
- *b*) cultivating the soil.
- *c*) maintaining and harvesting the products and the subproducts of the soil.
- *d*) treating, manipulating, transporting and preserving the products and the subproducts of the soil.

2° Implements, engines, materials and machines employed for obtaining, breeding, harvesting, preserving and treating the products of animal origin.

3° Implements, engines, materials and machines for special cultivation and for special breeding.

4° Appliances and products depending on machinery electricity and Sciences, utilised for the principal needs or annexes of agricultural exploitation.

¶ *N. B. — With the exception of all that is relative, such as origin or destination to the colonies.*

B. Pavilion of Viticulture

Processes, resources and products of Viticulture

C. Manifestations, Conferences Congresses, Special Exhibitions and Agricultural Competitions

Tourism, Sports and Physical Education

A. Belgian Tourism

The Coast — The Large Towns

The Historical Centres

The Spas — The Ardennes

The Resources of Tourism

Organisms, Press and Publications

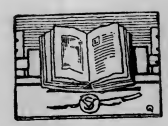
B. Foreign Tourism

C. Sports and Physical Education

Manifestations and Exhibitions

Fêtes and Competitions

Congresses



VAILLANT - CARMANNE - LIÈGE

1534

SPECIAL OBJECT

The prime object of the exhibition is to show what Sciences and Applied Sciences owe to research workers.

The aim of the promotors is to bring attention to the progress achieved in education, laboratories and technical equipment; to the development of museums and the facilities afforded for experimental work; to the achievements of scientific investigations and their application to industry and methods of production.

The industrial exhibition will also be divided in order to emphasise the latest progresses made in the numerous fields of industrial research, output and efficiency.

The following separate halls (exhibition palaces or pavilions) are to be erected for the Group of SCIENCES :

Physical Sciences and Mathematics.
Chemistry.
Mineral Sciences.
Medical Sciences.
Industrial Sciences.
Scientific and Industrial tuition.

For the Group of INDUSTRY, ten separate halls will be devoted to :

Metallurgy and engineering.
Mining.
Electricity.
Mechanics.
Smal arms, Cycles and Motorcycles.
Chemical Industries.
Crystal, Glass and Ceramics.
Textile Industry.
Transports.
Civil engineering and Public works.

Each hall being international, a country has not to erect its own separate building or Pavilion; the expense of official participation of a Nation is therefore greatly reduced.

Such general arrangements are not necessarily final and the Executive Committee are willingly prepared to examine any alterations which may be suggested.

OTHER SPECIAL EXHIBITIONS AND MANIFESTATIONS will include :

Ancient or Modern Music and Musical instruments.
Feminine fashion, Jewels, Perfumes, Shoes, Feminine Arts and works, etc.
Agriculture and Agricultural implements.
Viticulture.
Sports, Touring.
Congresses.

INTENTIONAL SECOND EXPOSURE

VAILLANT - CARMANNE - LIEGE
1534

SPECIAL OBJECT

The prime object of the exhibition is to show what Sciences and Applied Sciences owe to research workers.

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Agriculture and Agricultural implements.
Viticulture.
Sports, Touring.
Congresses.

25201

VAILLANT - CARMANNE - LIEGE 1533

END OF
TITLE